

REMARKS

Claims 17-21 remain in the application.

Claim rejections - 35 U.S.C. §102(e)

Claims 17-20 were rejected under 35 U.S.C. §102(e) as being anticipated by Milkovic. Milkovic teaches a linear detector 16 in which the real and imaginary portions of a signal are squared before adding them together (Figs. 1, 6, and column 1, lines 45-47).

However, the present invention explicitly teaches away from the calculation of squared terms when determining the signal power, because the multipliers required to carry out the squaring function are area intensive and expensive to implement (Page 2, lines 9-18 and page 7, lines 6-12). Instead, the present invention teaches a power approximation circuit that takes the absolute value of the real and imaginary parts of a signal, sums them up, and then applies an expectation function (Figure 2; page 7, line 13 through page 8, line 4).

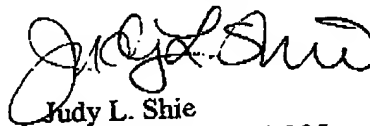
This novel feature is recited in claim 17: "... the power approximation circuit generating an approximate power value which indicates an actual power value for the complex signal by combining absolute values of the real and imaginary components..." (Underlining added). Claim 17 is believed to be patently distinct over Milkovic. Therefore, claim 17 is believed to be allowable. The rejection to claim 17 is believed to be overcome.

Dependent claims 18-20 are believed to be allowable based on the allowability of claim 17. The rejections to claims 18-20 are believed to be overcome. Dependent claim 21 is believed to be allowable based on the allowability of claim 17. The objection to claim 21 is believed to be overcome.

CONCLUSION

If the Examiner has any further questions or would like to discuss this application in more detail, he is invited to call the Applicants' agent at the telephone number given below. The Applicants respectfully suggest that the claims presently in the application are distinct over the prior art and that the application is now in condition for allowance. Accordingly, the Applicants solicit favorable action.

Respectfully submitted,
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